

L Number	Hits	Search Text	DB	Time stamp
1	3658	430/270.1.ccls.	USPAT; US-PGPUB	2004/01/16 19:56
2	73617	polyimide not (polyimide adj precursor)	USPAT; US-PGPUB	2004/01/16 19:57
3	72137	polyimide not (polyamic adj acid)	USPAT; US-PGPUB	2004/01/16 19:57
4	454	430/270.1.ccls. and ((polyimide not (polyimide adj precursor)) or (polyimide not (polyamic adj acid)))	USPAT; US-PGPUB	2004/01/16 19:58
5	2958	photoacid or acid adj generator	USPAT; US-PGPUB	2004/01/16 19:58
6	119	(430/270.1.ccls. and ((polyimide not (polyimide adj precursor)) or (polyimide not (polyamic adj acid)))) and (photoacid or acid adj generator)	USPAT; US-PGPUB	2004/01/16 19:58
7	684799	positive	USPAT; US-PGPUB	2004/01/16 19:59
8	89	((430/270.1.ccls. and ((polyimide not (polyimide adj precursor)) or (polyimide not (polyamic adj acid)))) and (photoacid or acid adj generator)) and positive	USPAT; US-PGPUB	2004/01/16 20:06
9	560	(tetracarboxylic adj dianhydride).clm.	USPAT; US-PGPUB	2004/01/16 20:07
10	13645	diamine.clm.	USPAT; US-PGPUB	2004/01/16 20:07
11	15152	polyimide.clm.	USPAT; US-PGPUB	2004/01/16 20:07
12	4386	polyimide.ab.	USPAT; US-PGPUB	2004/01/16 20:07
13	211	((tetracarboxylic adj dianhydride).clm.) and diamine.clm. and polyimide.clm. and polyimide.ab.	USPAT; US-PGPUB	2004/01/16 20:08
14	49649	(photosensitive or photoresist) and positive	USPAT; US-PGPUB	2004/01/16 20:09
15	19	((tetracarboxylic adj dianhydride).clm.) and diamine.clm. and polyimide.clm. and polyimide.ab.) and ((photosensitive or photoresist) and positive)	USPAT; US-PGPUB	2004/01/16 20:09



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TITLE: PHOTOSENSITIVE RESIN AND ITS PRODUCTION
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ABSTRACT:

PURPOSE: The reaction between a tetracarboxylic dianhydride and a specific diamine gives a novel photosensitive resin that has polyimide structure and shows high heat resistance, high electrical insulation and good processability.

CONSTITUTION: The reaction between (A) a tetracarboxylic anhydride of formula I ($R<SB>1</SB>$ is tetravalent aromatic hydrocarbon residue) and (B) (i) a diamine of formula II ($R<SB>3</SB>$ is H , monovalent aliphatic or aromatic group having a group of formula III in its chain or ring, X is -O- or -S-) or a mixture thereof with (ii) a diamine of formula IV ($R<SB>2</SB>$ is trivalent aliphatic or aromatic residue, $R<SB>4</SB>$ is H , monovalent aliphatic group having a group of formula III in its chain or ring, X is -O-, -S-, where $R<SB>4</SB>$ and $R<SB>1</SB>$ may be same at a time, however, both must not be H) is effected in an organic polar solvent to give the objective resin of formula V (m is positive integer, n is 0 or positive integer).

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$R_1 = Ar$

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感光性樹脂及びその製造方法

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